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(21) International Application Number: PCT/US89/02761 (22) International Filing Date: 23 June 1989 (23.06.89) (30) Priority data: 216,888           8 July 1988 (08.07.88)   US 230,761           10 August 1988 (10.08.88)   US 260,807           21 October 1988 (21.10.88)   US (71) Applicant: CETUS CORPORATION [US/US]; 1400 Fifty-Third Street, Emeryville, CA 94608 (US). (72) Inventors: WONG, Gail, L. ; 11255 Elvessa Street, Oak- land, CA 94605 (US). MCCORMICK, Francis, P. ; 921 Ramona Avenue, Albany, CA 94706 (US). MARTIN, George ; 2346 Woolsey Street, Berkeley, CA 94705 (US). RUBINFELD, Bonnee ; 3403 Claridge Drive, Danville, CA 94526 (US). O'ROURKE, Edward, C. ; 7321 Skyline Boulevard, Oakland, CA 94611 (US). CLARK, Robin ; 3736 Woodruff Avenue, Oakland, CA 94602 (US).		KOTHS, Kirston, E. ; 2646 Mira Vista Drive, El Cerrito, CA 94530 (US). HALENBECK, Robert, F. ; 136 Spring Grove Avenue, San Rafael, CA 94901 (US). TRAHEY, Mary, M. ; 5933 Chabot Road, Oakland, CA 94618 (US). (74) Agent: HALLUIN, Albert, P.; Cetus Corporation, 1400 Fifty-Third Street, Emeryville, CA 94608 (US). (81) Designated States: AT (European patent), AU, BE (Euro- pean patent), BG, CH (European patent), DE (Euro- pean patent), DK, FI, FR (European patent), GB (Euro- pean patent), HU, IT (European patent), JP, LU (Euro- pean patent), NL (European patent), NO, SE (European patent). <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i> (88) Date of publication of the international search report: 1 November 1990 (01.11.90)	
(54) Title: GAP GENE SEQUENCES AND DIAGNOSTIC USES THEREOF			
<p style="text-align: center;">ILE MET PRO GLU GLU GLU TYR SER GLU PHE LYS</p> <p style="text-align: center;">       ATC ATG CCC GAG CAG GAG TAC TCC GAG TTC AAG                  T          A      A G A      A      T      T      A      T      A        5          A          T                                  A                          G                                  G          AGC          T     </p>			
(57) Abstract			
Guanosine triphosphatase activating protein (GAP) DNA sequences are described that are useful as cancer diagnostics, particularly to detect cancer cells that express the ras oncogene protein p21 by measuring the level of GAP gene expression or amplification.			







